

INFORMATION DISCLOSURE CITATION WITH DOCUMENT COPIES

Submitted by:

ROBERT A. MCBAIN
Delphi Technologies, Inc.,

Reg. No. 37181

Atty. Docket No.	Serial No.
DP-306711 CIP1	10/616,490

Applicant
Van Steenkiste et al.

Filing Date	Group
July 9, 2003	1762

U.S. PATENT DOCUMENTS

Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
VB	2,861,900	11/25/1958	Smith, et al.	—	—	—
VB	3,100,724	08/14/1964	Rocheville	—	—	—
VB	3,876,456	04/08/1975	Ford, et al	—	—	—
VB	3,993,411	11/23/1976	Babcock, et al.	—	—	—
VB	3,996,398	12/1976	Manfredi	—	—	—
VB	4,263,335	04/21/1981	Wagner, et al.	—	—	—
VB	4,416,421	11/22/1983	Browning, et al.	—	—	—
VB	4,606,495	08/19/1986	Stewart, Jr., et al.	—	—	—

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Document Number	Date	Country	Class	Subclass	Translation Yes No
VB	03009934	02/06/2003	WO	—	— Yes
VB	04180770	06/26/1992	JP	—	— Abstract Only
VB	04243524	08/31/1992	JP	—	— Abstract Only

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

VB | Van Steenkiste, et al; Kinetic Spray Coatings; in Surface & Coatings Technology III; 1999, pp62-71

VB | Liu, et al; Recent Development In the Fabrication of Metal Matrix-Particulate Composites Using Powder Metallurgy Techniques, in Journal of Material Science; 1994; pp 1999-2007; National University of Singapore, Japan

VB | Papyrin; The Cold Gas-Dynamic Spraying Method A New Method For Coatings Deposition Promises A New Generation of Technologies, Novosibirsk, Russia *no date*

VB | McCune, et al; Characterization of Copper And Steel Coatings Made By The Cold Gas-Dynamic Spray Method; National Thermal Spray Conference *no date*

Examiner *R. Bareford* | Date Considered *6/9/05*

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VB	4,891,275	01/02/1990	Knoll	—	—	—
VB	4,939,022	07/03/1990	Palanisamy	—	—	—
VB	5,187,021	02/16/1993	Vydra, et al	—	—	—
VB	5,217,746	06/1993	Lenling, et al	—	—	—
VB	5,271,965	12/21/1993	Browning	—	—	—
VB	5,302,414	04/12/1994	Alkhimov, et al	—	—	—
VB	5,308,463	05/03/1994	Hoffmann, et al	—	—	—
VB	5,340,015	08/23/1994	Hira, et al.	—	—	—

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Document Number	Date	Country	Class	Subclass	Translation Yes No
VB	42 36 911	12-23-1993	Germany	—	— No
VB	55031161	03-05-1980	Japan	—	— Abstract Only
VB	61249541	11-06-1986	Japan	—	— Abstract Only

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VB | Alkhimov, et al; A Method of "Cold" Gas-Dynamic Deposition; Sov. Phys. Kokl. 36 (12; December 1990; pp. 1047-1049

VB | Dykuizen, et al; Impact of High Velocity Cold Spray Particles; in Journal of Thermal Spray Technology 8(4); 1999 pp. 559-564

VB | Swartz, et al; Thermal Resistance At Interfaces; Appl. Phys. Lett., Vol. 51, No 26, 28; December 1987; pp 2201-2201.

VB | Davis, et al; Thermal Conductivity of Metal-Matrix Composites; J. Appl. Phys. 77(10), May 15, 1995; pp.4494-4960

Examiner K. Barford | Date Considered 6/9/05

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VB	5,362,523	11/1994	Gorynin, et al.	—	—	—
VB	5,395,679	03/07/1995	Myers, et al.	—	—	—
	5,242,101	06/13/1995	Atkins, et al.	—	—	—
VB	5,464,146	11/07/1995	Zalvzec, et al.	—	—	—
VB	5,476,725	12/19/1995	Papich, et al.	—	—	—
VB	5,525,570	06/11/1996	Chakraborty, et al.	—	—	—
VB	5,527,627	06/18/1996	Lautzenhiser, et al.	—	—	—
VB	5,585,574	12/17/1999	Sugihara, et al.	—	—	—

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VB	98/22639	05/1998	WO	—	— —
VB	199 59 515	06/13/2001	Germany	—	— No
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VB | Stoner, et al; Measurements of the Kapitza Conductance between Diamond and Several Metals; Physical Review Letters, Volume 68, Number 10, March 9, 1992; pp. 1563-1566

VB | Stoner, et al; Kapitza conductance and heat flow between solids at temperatures from 50 to 300k; Physical review B, Volume 48, Number 22, December 1, 1993-II; pp. 16374; 16387.

VB | Johnson, et al; Diamond/Al metal matrix composites formed by the pressureless metal infiltration process; J. Mater. Res., Vol. 8, No. 5, May 1993; pp. 1169-1173.

VB | Rajan, et al; Reinforcement coatings and interfaces in Aluminum Metal Matrix Composites; pp. 3491-3503. *nodate*

Examiner H. Bareford | Date Considered 6/9/05

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103	5,593,740	01/14/1997	Strumbon, et al.	—	—	—
103	5,648,123	07/15/1997	Kuhn, et al.	—	—	—
103	5,683,615	11/04/1997	Munoz	—	—	—
103	5,795,626	08/18/1998	Grabel, et al.	—	—	—
103	5,854,966	12/29/1998	Kampe, et al.	—	—	—
103	5,875,626	03/02/1999	Singer, et al. Cromartie	—	—	—
103	5,887,335	03/30/1999	Garsheles	—	—	—
103	5,889,215	03/30/1997	Kilmartin, et al.	—	—	—

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101 26 100	12/05/2002	Germany	—	—	No
11 160 348	12/05/2001	EP	—	—	Yes
02/052064	01/04/2002	WIPO	—	—	Abstract Only

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103	LEC Manufacturing And Engineering Components; Lanxide Electronic Components, Inc. no date
103	Dykhuizen, et al.; Gas Dynamic Principles of Cold Spray; Journal of Thermal Spray Technology; 06-98; pp. 205-212.
103	McCune, et al; An Exploration of the Cold Gas-Dynamic Spray Method For Several Materials Systems no date
103	Ibrahim, et al; Particulate Reinforced Matrix Composites – A Review; Journal of Materials science 26; pp. 1137-1156. no date

Examiner H. Bareford Date Considered 6/9/05

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103	5,894,054	04/13/1999	Paruchuri, et al.	—	—	—
103	5,907,761	05/25/1999	Tohma, et al.	—	—	—
103	5,952,056	09/14/1999	Jordan, et al.	—	—	—
103	5,965,193	10/12/1999	Ning, et al.	—	—	—
103	5,989,310	11/23/1999	Chu, et al.	—	—	—
103	6,033,622	03/07/2000	Maruyama	—	—	—
103	6,051,045	04/18/2000	Narula, et al.	—	—	—
103	6,051,277	04/18/2000	Claussen, et al.	—	—	—

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Document Number	Date	Country	Class	Subclass	Translation Yes No
103 1245854A2	12/21/2002	EP	—	—	Yes

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103	I.J. Garshelis, et al; A Magnetoelastic Torque Transducer Utilizing a Ring Divided Into Two Oppositely Polarized Circumferential Regions; MMM 1995; Paper No. BB-08
103	I.J. Garshelis, et al; Development of a Non-Contact Torque Transducer For Electric Power Steering Systems; SAE Paper No. 920707; 1992; pp. 173-182.
103	Boley, et al; The Effects of Heat Treatment on the Magnetic Behavior of Rng - Type Magnetoelastic Torque Sensors; Proceedings of Sicon '01; November 2001.
103	J.E. Snyder, et al; Low Coercivity Magnetostrictive Material With Giant Piezomagnetic d33, Abstract Submitted for the MAR 99 Meeting of the American Physical Society.
103	McCune, et al; An Exploration of the Cold-Gas-Dynamic Spray Method ; Proc. Nat. Thermal Spray Conf. ASM 9/1995.
103	Pavel Ripka, et al; Pulse Excitation of Micro-Fluxgate Sensors, IEEE Transactions on Magnetics, Vol. 37, No. 4, July 2001, pp. 1998-2000.

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Applicant						
Filing Date 7/9/03	Group 1762					
U.S. PATENT DOCUMENTS						
Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
VB	6,074,737	06/13/2000	Jordan, et al	—	—	—
VB	6,119,667	09/19/2000	Boyer, et al.	—	—	—
VB	6,129,948	10/10/2000	Plummet, et al.	—	—	—
VB	6,139,913	10/31/2000	Van Steenkiste, et al	—	—	—
VB	6,149,736	11/21/2000	Sukigara, et al.	—	—	—
VB	6,159,430	12/12/2000	Foster	—	—	+
VB	6,189,663	02/20/2001	Smith, et al.	—	—	—
VB	6,283,386	09/04/2001	Van Steenkiste, et al.	—	—	—
FOREIGN PATENT DOCUMENTS						
Document Number	Date	Country	Class	Subclass	Translation	
					Yes No	

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VB	Trifon M. Liakopoulos, et al; Ultrahigh Resolution DC Magnetic Field Measurements Using Microfabricated Fluxgate Sensor Chips, University of Cincinnati, Ohio, Center For Microelectronic Sensors and MEMS, Dept. of ECECS pp. 630-631. <i>No date</i>
VB	Derac Son, A New Type of Fluxgate Mangetometer Using Apparent Coercive Field Strength Measurement, IEEE Transactions on Magnetics, Vol. 25, No. 5, September 1989, pp.3420-3422
VB	O. Dezauri, et al; Printed Circuit Board Integrated Fluxgate Sensor, Elsevier Science S.A. (2000) Sensors and Actuators, pp. 200-203.
VB	Moreland, Fluxgate Magnetometer, Carl W. Moreland, 1999-2000, pp. 1-9.
VB	Ripka, et al; Symmetrical Core Improves Micro-Fluxgate Sensors, Sensors and Acutuators, Version 1, August 25, 2000, pp. 1-9.
VB	Hoton How, et al; Development of High-Sensitivity Fluxgate Magnetometer Using Single-Crystal Yttrium Iron Garnet Film as the Core Material, ElectroMagnetic Applications, Inc. <i>No date</i>

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Exam. Init.	Document Number	Date	Name	Class	Sub- Class	Filing Date (if approp.)
V30	6,283,859	09/04/2001	Carlson, et al.	—	—	—
V30	6,289,748	09/18/2001	Lin, et al.	—	—	—
V30	6,338,827	01/15/2002	Nelson, et al.	—	—	—
V30	6,402,050	06/11/2002	Subramanian, et al. Kashiri et al.	—	—	—
	6,422,039	08/27/2002	Schreiber	—	—	—
V30	6,422,360	07/26/2002	Oliver, et al.	—	—	—
V30	6,465,039	10/15/2002	Pinkerton, et al.	—	—	—
V30	6,485,852	11/26/2002	Miller, et al.	—	—	—

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V30	Ripka, et al; Microfluxgate Sensor With Closed Core, submitted for Sensors and Actuators, Version 1, June 17, 2000.
V30	Hendriksen, et al; Digital Detection and Feedback Fluxgate Magnetometer, Meas. Sci. Technol. 7 (1996) pp. 897-903.
V30	Cetek 930580 Compass Sensor, Specifications, June 1997
V30	Geyger, Basic Principles Characteristics and Applications, Magnetic Amplifier Circuits, 1954, pp. 219-232.

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VB	6,511,135	01/28/2003	Ballinger, et al	—	—	—
VB	6,537,507	03/23/2003	Nelson, et al.	—	—	—
VB	6,623,704	09/23/2003	Roth	—	—	✓
VB	6,623,796	09/23/2003	Van Steenkiste, et al.	—	—	—
VB	6,624,113	09/23/2003	LaBarge, et al.	—	—	—
VB	2002/ 0071906	06/2002	Rusch	—	—	—
VB	2002/ 0102360	08/01/2002	Subramanian, et al.	—	—	—
VB	2002/ 0112549	08/22/2002	Cheshmehdoost, et al	—	—	—

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